SEQUENCE LISTING

<110> Dyer, Cheryl J.
       Du, Fengxing
       Grosz, Michael D.
       Byatt, John C.

<120> USE OF A SINGLE NUCLEOTIDE POLYMORPHISM IN THE CODING REGION OF
       THE LEPTIN RECEPTOR GENE TO ENHANCE PORK PRODUCTION

<130> 11916.0058.PCUS02

<150> US. 60/553,582
<151> 2004-03-16

<150> U.S. 60/493,158
<151> 2003-08-07

<160> 44

<170> PatentIn version 3.3

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<213> Artificial Sequence

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<213> Sus scrofa

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tgtatatata tacactcaca tacatgtata tatatatg tgagtgtata tatatttta   180

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tttgtattag gcactgtttg agcacttgga aagttaaata attattgttg aagactgcat      360

gttttaatct tagatacttc ctatttatgt cttagtcaaa atgattaatt gctttctat       420

gtgtctttta aatgtcctaa cagaatttat ttatgtgata actgcatttg acttggcata      480

tccaattact ccttggaaat ttaagttgtc ttgcatgcca ccaaatacaa catatgactt      540

cctcttgcct gctggaatct caaagaacac ttcaactttg aatggacatg atgaggcagt      600

tgttgaaacg gaacttaatt caagtggtac ctacttatca aacttatctt ctaaaacaac      660

tttccactgt tgcttttgga gtgaggaaga taaaaactgc tctgtacatg cagacaacat      720

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aatgtcctaa ca gaa ttt att tat gtg ata act gca ttt gac ttg gca tat   171
              Glu Phe Ile Tyr Val Ile Thr Ala Phe Asp Leu Ala Tyr
              1   5   10

cca att act cct tgg aaa ttt aag ttg tct tgc atg cca cca aat aca   219
Pro Ile Thr Pro Trp Lys Phe Lys Leu Ser Cys Met Pro Pro Asn Thr
    15   20   25

aca tat gac ttc ctc ttg cct gct gga atc tca aag aac act tca act   267
Thr Tyr Asp Phe Leu Leu Pro Ala Gly Ile Ser Lys Asn Thr Ser Thr
30   35   40   45

ttg aat gga cat gat gag gca gtt gtt gaa ang gaa ctt aat nna agt   315
Leu Asn Gly His Asp Glu Ala Val Val Glu Xaa Glu Leu Asn Xaa Ser
                50   55   60

ggt acc tac tta tca aac tta tct tct aaa aca act ttc cac tgt tgc   363
Gly Thr Tyr Leu Ser Asn Leu Ser Ser Lys Thr Thr Phe His Cys Cys
                65   70   75

ttt tgg agt gag gaa gat aaa aac tgc tct gta cat gca gac aac att   411
Phe Trp Ser Glu Glu Asp Lys Asn Cys Ser Val His Ala Asp Asn Ile
            80   85   90

gca ggg aag g   421
Ala Gly Lys
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<210> 11
<211> 96
<212> PRT
<213> Sus scrofa

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<222> (56)..(56)
<223> The 'Xaa' at location 56 stands for Lys, Arg, Thr, or Met.

<220>
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<222> (60)..(60)
<223> The 'Xaa' at location 60 stands for Lys, Arg, Thr, Ile, Glu, Gly,
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<400> 11

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Pro Trp Lys Phe Lys Leu Ser Cys Met Pro Pro Asn Thr Thr Tyr Asp
            20              25              30


Phe Leu Leu Pro Ala Gly Ile Ser Lys Asn Thr Ser Thr Leu Asn Gly
        35              40              45


His Asp Glu Ala Val Val Glu Xaa Glu Leu Asn Xaa Ser Gly Thr Tyr
    50              55              60


Leu Ser Asn Leu Ser Ser Lys Thr Thr Phe His Cys Cys Phe Trp Ser
65              70              75              80


Glu Glu Asp Lys Asn Cys Ser Val His Ala Asp Asn Ile Ala Gly Lys
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<213>   Sus scrofa

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tcttgcatgc caccaaatac aacatatgac ttcctcttgc ctgctggaat ctcaaagaac    180

acttcaactt tgaatggaca tgatgaggca gttgttgaaa cggaacttaa tataagtggt    240

acctacttat caaacttatc ttctaaaaca actttccact gttgcttttg gagtgaggaa    300

gataaaaact gctctgtaca tgcagacaac attgcaggga aggcatttgt ttcagcagta    360

aattccttag tttttcaaca aacaggtgca aactggaaca tacagtgctg gatgaaagag    420

gacttgaaat tattcatctg ttatatggag tcattattta agaatccttt caagaattat    480

gaccttaaag ttcatctttt atatgttctg ctcgaagtgt tagaaggatc acctctgctc    540

ccccagaaag gtagttttca gagcgttcaa tgcaactgca gtgctcgtga atgttgtgaa    600

tgccatgtgc ctgtgtcggc agccaaactc aactacaccc ttcttatgta tttgaaaatc    660

acatctggtg gagcagtttt tcactcacct ctcatgtcag ttcagcccat aaacgttgtg    720

aagcctgatc caccattagg tttgcatatg gaaatcacag acactggtaa tttaaagatt    780

tcttggtcca gcccaacact ggtaccattt caacttcaat atcaagtaaa atattcagag    840
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5

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aattctacaa caaatatgag agaagctgat gagatcgtct cagatacatc tctgcttgta      900

gacagtgtgc ttcccgggtc ttcatatgag gttcaggtga ggggcaagag actggatggc      960

ccaggaatct ggagtgactg gagcaccccc tttactttta ccacacaaga tgttatatac     1020

tttccaccta aaattctgac aagtgttggg tctaacattt cttttcactg catctataaa     1080

aatgagaaca agatcgtttc ctcaaaaaag attgtttggt ggatgaattt agctgagaag     1140

attcctcaaa gtcagtatga tgttgtgggt gaccatgtta gcaaagtcac ttttcccaat     1200

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cacgagtgcc accatcgcta tgctgagtta tatgtgattg atgtcaatat caatatatca     1320

tgtgaaactg atgggtactt aactaaaatg acttgcagat ggtcaaccaa tgcaatccaa     1380

tcacttgtgg gaagcacttt gcagttgagg tatcatagga gtagcctcta ctgttctgac     1440

gttccatctg tgcatcccat atctgaaccc aaagattgcc agttgcagag agatggtttt     1500

tatgaatgca tatttcagcc aatatttctg ctatctggct atacaatgtg gattagaata     1560

aatcacccgt tgggttcact tgattctcca ccaacatgtg tcattcctga ttccgtggtg     1620

aaaccgctgc ctccatccag tgtgaaagca gaaattactg caaaaattgg attactgaaa     1680

atatcttggg agaagccagt cttcccagag aataatcttc agttccagat tcgctatggt     1740

ttaagtggaa aagaagtaca gtggaagatc tatgaggtat atgacacaaa gttaaaatcc     1800

accagtctcc cggtgccaga cctgtgtgca gtctatgctg tccaggtgcg ctgtaagagg     1860

ctagatggac tgggctattg gagtaattgg agtactccag cctacacagt tgtcacggat     1920

gtaaaagttc ctatcagagg acctgaattt tggagaataa ttaatgaaga tgccactaaa     1980

aaagagagga atatcactct gctctggaag cctctgatga aaaatgactc attgtgcagc     2040

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ggaaaccaca ctaaactcac tttcctttgg acagagcaag cacattctgt tacagttctg     2160

gccgtcaatt caattggtgc ttcttccgca aattttaatt taacattctc atggcccatg     2220

agcaaagtaa atatcgtgca gtcgctcagt gcttatcctt aaacagcag ttgtgtgggt     2280

ctttcctggc tgctctcacc cagtgattac aatctgatgt attttattct tgagtggaaa     2340

attcttaatg aagaccatga aattaaatgg ctcagaatcc cttcctctgt taaaaagtat     2400

tatatccacg atcattttat tcctattgag aaatatcaat tcagtctttta ccccatattc     2460

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6

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aaccccaaga actgttcctg ggcacaagga cttaatttc agaagccgga aacatttgag     2700

catctttta tcaagcacac agaatcagtg acatttggcc ctcttctttt ggagcctgaa     2760

accatttcag aagatatcag tgttgataca tcatggaaaa ataaggatga gatggtgcca    2820

ccaactacag tctctctact cttgacaact ccggaccttg aaaagagttc aatttgtatt    2880

agtgaccaac gcagcagtgc ccacttctct gaggctgaga gcatggagat aactcgtgag    2940

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ggattggatg aacttatgaa gtttgaggga aatttccca aagaacataa tgacgaaagg     3240

tctgtctatt atttaggagt cacctcaatc aaaaagagag agagtgatgt gttttttgact  3300

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cagtaataca gaaaaaaaaa tgtgagaaag ccttcaagag cctagtaatg tagacctact    3720

cttctaatga ttctcttaac cggctacagt gggaagttct cgaatgcctt gtgtctagct    3780

agaaacaagc ccaacaatac tagcgttttg agcattaatc tcatgtagaa agagctaatc    3840

catctgaatt acacatacat ctgaagaag acttcagact aacacttgtg aaatgtaatg     3900

tcttcaagag tgtgattgtt ttatcttgag gtgtctttgt tttacactaa tttacacata    3960

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<212> DNA
<213> Sus scrofa

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atatgaccct acatttggta tttggaaaca gggagtcagt tttattggaa agggatgaga   240

gggggtagaa gaatgtcatg cttagggttg taaaacctta ttcttggtcc aggatcaccc   300

actggttggg gagtttcatc caagatgttt cactacttga gactaggctt aaaaataaaa   360

ggctgtttct attcctctgg tcaatatgta gctcatctct aaacaggaac atagggctcc   420

aatangannn ccccagtctt gtagttaagt gtaccttaac tttttgcttc ttctttcttc   480

ttannagctt taacttanna aatattgtca tcttgttaac cctgacnnat gatttatctt   540

catcaatctg tttagacttg aagtcanngc tcaaattann ttctgnnntt tcatnnngnn   600

cnnnnntngn nnnnnnnnnn nnnagcttgt gtgccaattt nnnnnnnnnn natgaantac   660

tcnnannnnn nnnnnnnnnn nnngnnnaaa nnnnnnnnnn nnnncnncnn nnnnnnnnnn   720

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   780

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   840

nnnnnnnnnn nnnncagnnt natgaannnn nnctanannn nnncnacttg gacctggggc   900

actattgtgg tctcaggagt tctgttccca ggattcagga attcactaga gtgtacacag   960

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ggtcc   1025

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acccccgcc ccttgccagc gaggacagca gtgggtctgc cctacgcctt gtccgagttg      240

ctaatattcc tcaacccctt caccaaccgg tttgggaaac aggattctca cgttagatac     300

gaaatggtct cgattgagct tttactttttg tatagttcaa caggggtaga gagccatggg    360

acatggtttt acccctgttc tacccaaatc catatacatg cgnnggnnnt taactggnnn     420

ctactataat tnnnnntttt cnnnnt                                          446


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<213>  Sus scrofa


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<223>  N = unknown

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aacagaatat caaaagaggg gtaaagccta catatcttca gtctaaaaaa tgaagttata     180

aaactcttag tgtcttaagc tatgttttca acagaccctc tgatatttgg aaaagcagag     240

gaaaatttgg aagcccactg ttgcaatcaa caggagctac taaaattta gtctattttt      300

ttcaactcta tcagttcttt tcttatactc aaatgattat cctggctatt aaataatctc     360

tttcctccct ccacacaccc gctgccagtg gactctcctt ttatatattt tacttttttga    420

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agagttagaa cttttcattt cctacttcat atgcaagaaa ttttctctcc ctttgtctac     540

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aggcatggaa taatttccct taatagacat tatccagtag cccctctta ttggcagnnn      660

atatgtnnnn ngnnnctcag tngatgccnn nnnctnnnnn tngtactgaa cgctacatat     720

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cgcaacccag ggaatcagaa ggaagctccc tggtgcttca ccttggatga gaactttaag   180

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gaaatcctgt acatactggt gcccagtgtt gccatccccc tggccattgc cttactcttc   300

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cc   362

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<212> DNA
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atagtatttg gaactttctt ggcagatttc ttacatcgtt attcaatatg agctgcgaat   300

catatgctcg tagttaggaa aatgtcagga aaccctgagt gtgcctgctt tgtttgacaa   360

agctattttc gagtcatgtt ggaaggcaag ggcatccagc gcctggcatg gaggagaaga   420

gggtagccct gcccccacc ttcccagcct ttttctgaga tgttggtaat tcggtcctag   480

atgacaagcg ctcaactctg aacaagagac ggccatctca caccgtctca attagtccag   540

gatgtgtgtc agggctgcga gaggtcggag aggaaatgcg gggaacttgt tcacttcttg   600

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<220>
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<212>   DNA
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<220>
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<400>   20
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<210>   21
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<400>   21
aagttccaaa tactatttc                                                         19


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<400>   22
cagaccctct gatatttgga aaagca                                                 26


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<220>
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<400> 25
caggagctat taaaat   16

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<400> 26
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<210> 28
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<400>   29
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<400>   31
cacacatcct ggactaattg agacg                                        25


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<400>   32
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<400>  35
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<400>  36
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<210>  37
<211>  20
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Synthetic nucleotide
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<400>  37
gctgggatgt cacacaggtc                                                    20


<210>  38
<211>  20
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Synthetic nucleotide

<400>  38
tgggaaacag gattctcacg                                                    20


<210>  39
<211>  20
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<213>  Artificial Sequence

<220>
<223>  Synthetic nucleotide

<400>  39
tggatttggg tagaacaggg                                                    20


<210>  40
<211>  20
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Synthetic nucleotide

<400>  40
cagcagccct aaatcaggtg                                                    20


<210>  41
<211>  20
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Synthetic nucleotide

<400>  41
aggcctgggt ttctatctcc                                                    20


<210>  42
<211>  406
<212>  DNA
<213>  Sus scrofa
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<220>
<221> misc_feature
<222> (103)..(103)
<223> N = T or G

<400> 42
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atggtgaggc agctgtaact ggttacgaac ccgtgttgga aanagtattt ggaactttct   120

tggcagattt cttacatcgt tattcaatat gagctgcgaa tcatatgctc gtagttagga   180

aaatgtcagg aaaccccgag tgtgcctgct ttgtttgaca aagctatttt cgagtcatgt   240

tggaaggcaa gggcatccag cgcctggcat ggaggagaag agggtagccc tgccccccac   300

cttcccagcc tttttctgag atgttggtaa ttcggtccta gatgacaagc gctcaactct   360

gaacaaggga cggccgtctc acaccgtctc aattagtcca ggatgt   406

<210> 43
<211> 395
<212> DNA
<213> Sus scrofa

<220>
<221> misc_feature
<222> (192)..(192)
<223> N = T or C

<400> 43
gatatatttg agctacagaa ggttttctag gcaacagaat atcaaaagag gggtaaagcc   60

tacatatctt cagtctaaaa aatgaagtta taaaactctt agtgtcttaa gctatgtttt   120

caacagaccc tctgatattt ggaaaagcag aggaaaattt ggaagcccac tgttgcaatc   180

aacaggagct antaaaattt tagtctattt tttcaactct atcagttctt ttcttatact   240

caaatgatta tcctggctat taaataatct ctttcctccc tccacacacc cgctgccagt   300

ggactctcct tttatatatt ttactttttg aattcaagtc ttctatatct tagtacaatg   360

gccaaaaaaa ctaagctttc taaggcaccc aagag   395

<210> 44
<211> 838
<212> DNA
<213> Sus scrofa

<400> 44
tctggtcaat atgtagctca tctctaaaag gaacataggg ctccaatagg aggaccccag   60

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tcttgtagtt aagtgtacct taactttttg cttcttcttt cttcttagga gctttaactt    120

aggaaatcta tcatcttgtt aaccctgaca aatgatttat cttcatcaat ctgtttaaac    180

ttgaagtcag aggctcaaat tattttctgt tttttcataa agttcagatt ttgagagact    240

ggttagcagc ttgtgtgcca atttaaggcc tttaaatgaa atactcaaaa ttctagattt    300

atcctaagtt taaaattgca aacctatact tcagctccac tctcccttca aatttttcta    360

cagaacctct gcaaagatag ggagactatc tgaccatacc aaagtataaa acattctaag    420

acaaccgaaa tggcagataa ttttcataaa grcccactaa tctctagtca tatatagagt    480

gaaatgaact tacaaaagtg aaaaatagat ccctagcaca ctgaccttaa aactgatcta    540

aatccataca tcaataggcc agacttggag ttcccatcat ggcacagtgg ttaaagaacc    600

cgactaggaa tcatcaggtt gcaggttcaa tccctggcct tgctcagtgg gttaagaatc    660

cagcattgct gtgagctgtg gtgtaggtcg cagacgtggc tcagattcca cgttgctgtg    720

gctctggcgt aggcgggagg ctacagctct gattagaccc ctcgcctaat atgccagggg    780

tgcagcccct cgcctaatat gccatgggtg cagccctaga aaagacaaaa aaaaaaaa     838
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